SERVICE MANUAL

FOR

MODEL SSC-303-I

OR

MODEL BLC-303-1

CREDIT CARD TELEPHONE
WITH INSERTION CARD READER

Equipped with CST 2.01 firmware.

Serving the Telephone Industry Since 1930

Communication Equipment
& Engineering Company

519 W South Park Street
Okeechobee, FL 34972
Voice: 863-357-0798
Fax: 863-357-0006

IMPORTANT INFORMATION FOR CUSTOMER

Please fill in before you continue.

The following information is necessary when calling CEECO for assistance.

MODEL NUMBER	MODEL SSC OR BLC-303-I EQUIPPED WITH CST2.01 FIRMWARE
SERIAL NUMBER	
DATE MANUFACTURED	
LOCATION INSTALLED	

For us to better serve you, please have this information available when calling for technical support.

CEECO
Communication Equipment & Engineering Company

519 W South Park Street
Okeechobee, FL 34972
863-357-0798- telephone
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1.0 INTRODUCTION

The practices in this manual provide installation and maintenance information for the CEECO Model SSC OR BLC-303-I Credit Card Telephone with Insertion Card Reader and firmware CST2.01.

The information in this manual is subject to change without notification.

For information not included in this manual, please call or write:

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2.0 GENERAL

The CEECO Model 303-I Credit Card Telephone is a microprocessor-based, line powered instrument designed to read the information encoded on the magnetic strip of any ABA Track-2 credit card, and transmit the data via DTMF tones. This model is compatible with most current credit cards using magnetic strip type cards.

NOTE: Before installing the phone, please read; Section 10.0 Installation Notes.

3.0 PROGRAMMING

3.1 Using a security tool, remove the backplate and locate the Printed Circuit Board. Locate the two plastic mini-jumpers on the Printed Circuit Board. With the phone "on hook", place the two mini-jumpers in the "ON" position, as depicted in the diagram on the last page of this manual.

3.2 **Lift the handset and dial # 9 7** on the keypad to clear all field programmable memory.

3.3 If a local PBX is being used, enter # 1 9 on the keypad, followed by the PBX access code (i.e. 9).

3.4 If call restrictions by the phone are necessary, use the keypad to enter the allowable numbers as shown in the examples below. * is a wild card representing/allowing any digit to be dialed. There are 10 memory locations available for call restrictions (locations #70 - #79).

EXAMPLES: (NOTE: "-" Shown for clarity only.)

 # 7 0 0-***-***-**** (allows all 0-, 0+ calls)

Special Note: If call restrictions are in effect, the above example must be programmed in order to use the credit cards.

 # 7 1 * 1 1 (allows 911, 411, 611, etc.)
7 **2** 9 1 1 (allows 911 specifically)
 # 7 3 1-* * *-5 5 5-1 2 1 2 (allows all long-distance information)
 # 7 4 1-8 0 0-* * *-* * * * (allows all 800 numbers)
 # 7 5 9 5 0-* * ** (allows all 950 exchange numbers)
 # 7 6 * * *-* * * * (allows all seven-digit numbers)

And so on. The above examples are just examples of some typical dialing patterns. The restrictions may be programmed as desired. A log if provided on page 7, in section 3.8 for recording the programmed restrictions for future reference.

PROGRAMMING CONTINUED

3.5 Now, use the keypad to enter # 0 0 followed by the below string of eight (digits). Notice that Digits 1, 2, and 5 choices to be made. Eight numbers must be entered after entering #00 in order for the phone to function properly.

#00:

Digit 1:

0 No incoming calls allowed.

or

1 Incoming calls allowed.

Digit 2:

0 Call restrictions are in effect. (allowed numbers must be programmed in locations #70-#79 or no calls will be permitted by the phone.)

or

1 No call restrictions.

Digit 3:

1

Digit 4:

0

Digit 5:

0 Send expiration date of Bank Cards mm/yr.

or

1 Do not send expiration date of Bank Cards.

Digit 6:

0

Digit 7:

0

Digit 8:

0

So, if #00**1**0000000 was entered, the phone would be programmed to allow incoming calls, perform call restrictions, and send the expiration dates of the cards.

PROGRAMMING CONTINUED

3.6 When programming is completed, place the two mini-jumpers in the "OFF" position and replace the handset.

3.7 To change a single memory location, place the phone on hook and place the two mini-jumpers in the "ON" position. Lift the handset and enter # plus the two-digit code for that memory location (i.e. #70, or #00, etc…), and enter the new numbers. Hang the phone up and place the two mini-jumpers back in the "OFF" position.

3.8 FREE CALL TABLE

CODE	NUMBER	CODE	NUMBER
#70	_ - _ _ _ - _ _ _ - _ _ _ _	#75	_ - _ _ _ - _ _ _ - _ _ _ _
#71	_ - _ _ _ - _ _ _ - _ _ _ _	#76	_ - _ _ _ - _ _ _ - _ _ _ _
#72	_ - _ _ _ - _ _ _ - _ _ _ _	#77	_ - _ _ _ - _ _ _ - _ _ _ _
#73	_ - _ _ _ - _ _ _ - _ _ _ _	#78	_ - _ _ _ - _ _ _ - _ _ _ _
#74	_ - _ _ _ - _ _ _ - _ _ _ _	#79	_ - _ _ _ - _ _ _ - _ _ _ _

4.0 OPERATION

4.1 With the phone properly connected, lift the handset.

4.2 Two modes of operation may take place:

1. Dial a free call; 911, 411 (only if number has been programmed /allowed under call restrictions programming.

2. Dial 0+ the number desired, wait for the tone, then insert/withdraw the credit card. Upon verification of the credit card, a normal phone call should proceed.

4.3 If a dialed number or a processed card is not permitted, the phone will emit a series of three tones known as an error tone.

4.4 When the call is finished, return the handset to hang up the phone.

5.0 SPECIFICATIONS

INPUT POWER	C.O. Line powered
LOOP CURRENT	23 mA min., 80 mA max.
IMPEDANCE	600 ohms
SIGNALING	DTMF, 70ms Tone, 70 ms Spacing
OUTPUT	-4 to -6 dBm
HEARING AID COMPATIBLE	Meets EIA standards
ENVIRONMENTAL	Temperature: 0°C to 50°C Humidity: 20% to 90% non-condensing
RINGER EQUIVALENCY	0.8A
PROGRAMMING	Via unit keypad
TELEPHONE HOUSING	Brushed 16-gauge stainless steel
DIMENSIONS	7 1/2" Wide x 21" High x 6 1/2" Deep (Handset on hook)
MOUNTING	Vertical surface mount
MEMORY RETENTION	Lithium battery, long life
FCC REGISTRATION	BW88T7-13823-TE-T
UL LISTED NO.	6OF5
TYPE JACK	RJ11C
CARD READER	Insertion Type, Read Only
Protocol	ABA Track-2, 1S02
Capacity	40 characters
Speed	8-150 cm/sec
Life	500,000 reads min.

6.0 PARTS LIST

DESCRIPTION	PART NO.
Hookswitch Cradle	301-588
Tongue & Bracket Assembly	301-581
Handset w/Armored Cord	301-004
Network	301-009
Network Cable Assembly	650-570
Ringer	401-009
MCRK-2 PC Board Assembly	650-600
Chrome ANS Keypad	705-110
Keypad Cable	700-005
Modular Line Cord	301-018
#10-32 Security Screws (2 ea.)	321-016
Card Reader Assembly	306-600
Card Reader Cable	306-034
Instruction Card Kit	301-030
Number Window	301-039
Number Card	301-040
Backplate	301-051
Grommet	301-052
Modular Connector (RJ11C)	301-054
Handset Swivel	308-016
CTA Board	917-006
OPTIONAL:	
Security Tool	301-037

7.0 RECOMMENDED TOOLS AND TEST EQUIPMENT

Volt/Ohm Meter
3/8∀ Nut Driver
Security Tool, CEECO Part Number 301-037
Flat Blade Screw Driver
DTMF Test Set

8.0 INSTALLATION NOTES AND ASSEMBLY INSTRUCTIONS

8.1 Using a 301-037 security tool (**sold separately**), loosen (do not remove!) the large outer cover locking screw, located at the front bottom center of the telephone housing. Remove the two security screws located on the sides of the telephone housing.

8.2 The security tool is for a standard 5/32" button head screw generally used on the framework of the phone booths.

8.3 Separate the cover assembly from the backplate assembly.

8.4 The backplate assembly may be installed on any suitable vertical surface or any standard payphone backboard.

8.5 Run the telephone line wire through the backplate assembly and terminate on the RJ11C modular jack on the backplate, as depicted in the diagram on the following page of this manual. The CEECO-provided modular jack must be used, as it contains required over-voltage protection.

8.6 The use of a gas tube station protector is recommended. The station ground should not exceed 50 ohms.

8.7 Plug the modular line cord from the telephone into the RJ11C modular jack.

8.8 Dress the line cord away from the security screw and install the cover assembly by inserting the tabs into the slots on top of the backplate.

8.9 Secure the cover assembly by replacing the two security screws on the sides and tightening the outer cover locking screw on the front.

*****WARNING*****

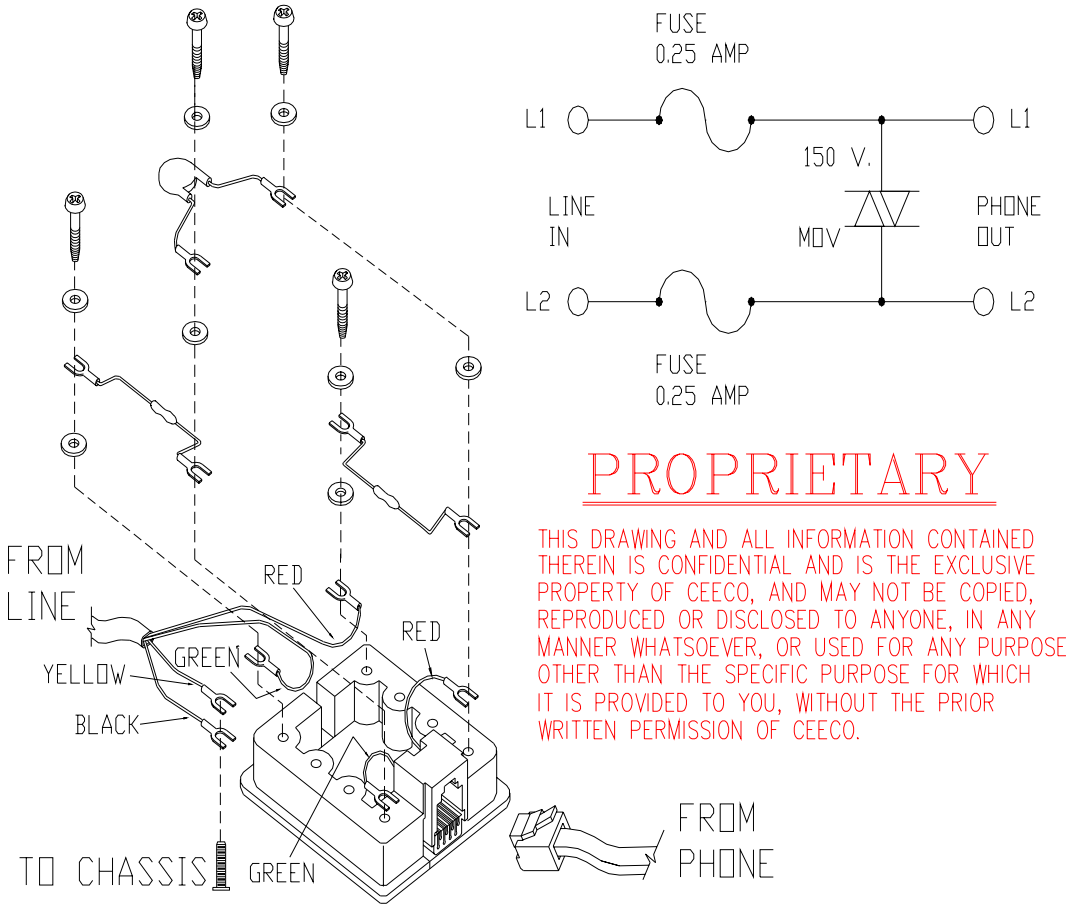
A. Never install telephone wiring during a lightning storm.

B. Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.

C. Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.

D. Use caution when installing or modifying telephone lines.

9.0 Telephone Line Wiring Diagram



10.0 FCC NOTICE

10.1 FCC REGISTRATION AND REPAIR INFORMATION

Your new telephone has been registered with the Federal Communication Commission (FCC) in accordance with Part 68 of its rules. The FCC requires that you be advised of certain requirements involving the use of this telephone.

10.2 CONNECTION AND USE WITH THE NATIONWIDE TELEPHONE NETWORK.

The FCC requires that you connect this telephone to the Nationwide Telephone Network through a registered jack provided by the telephone company in your area. This jack is a modular outlet which you can order from your local telephone company.

10.3 NOTIFICATION TO THE TELEPHONE COMPANY

Before connecting this telephone, the FCC requires that you notify your local telephone company business office. The number is in the front of your phone book.

Tell them:
The "line" to which you will connect the telephone (that is, your phone number), the telephone's FCC registration number and ringer equivalence number. These numbers are listed in section 7.0

The FCC further requires that you notify your local telephone company when permanently disconnecting this telephone.

11.0 REPAIR AND RETURN INFORMATION

11.1 WARRANTY REPAIR

Any device returned requiring warranty service; repair or credit must be accompanied with a "Return Material Authorization" (RMA) FORM. It must include: return shipping instructions, original purchase order number and special marking instruction. A description of the trouble observed must be attached to the defective unit. This information must be inside the shipping container.

11.2 DIRECT ALL INQUIRES TO:

CEECO
Repair Department
863-357-0798- telephone
863-357-0006- facsimile
info@ceeco.net
www.ceeco.net

11.3 NON-WARRANTY REPAIR

CEECO will repair equipment out of warranty for a set charge plus parts. The customer must pay the shipping costs for both directions.

11.4 RETURN FOR CREDIT

Material may be returned for credit only with prior approval. Material authorized for return is subject to a 20% restocking charge based on the manufacturer's list price. Return Material Authorization must be requested no later than 30 days after original shipment.

11.5 EXCHANGE POLICY

If a replacement unit is required it will be shipped in the most expedient manner consistent with the urgency of the situation. Please contact "Customer Service" for instructions regarding exchange of modules or printed circuit boards.

12.0 WARRANTY POLICY

12.1 GENERAL

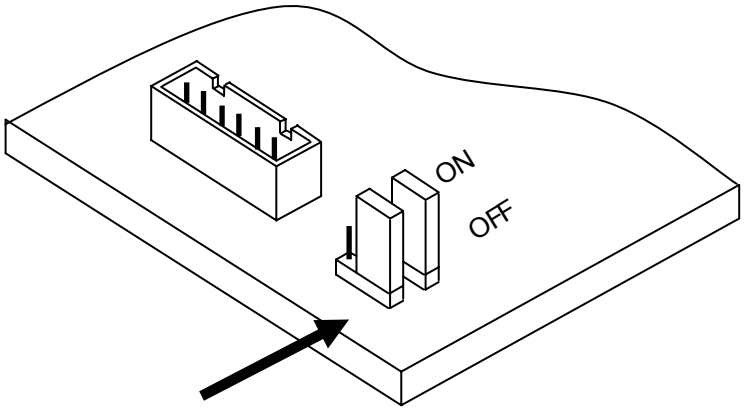
CEECO products are guaranteed to be free of defects in material and workmanship for a period of 365 days from the date of original purchase. CEECO's obligation under this warranty is limited to repair or replacement of any part found to be defective by CEECO. Under no circumstances shall CEECO be liable for loss, damage, cost of repair, or consequential damages of any kind which have been caused by neglect, abuse, acts of GOD or improper of equipment.

12.2 PRINTED CIRCUIT BOARDS

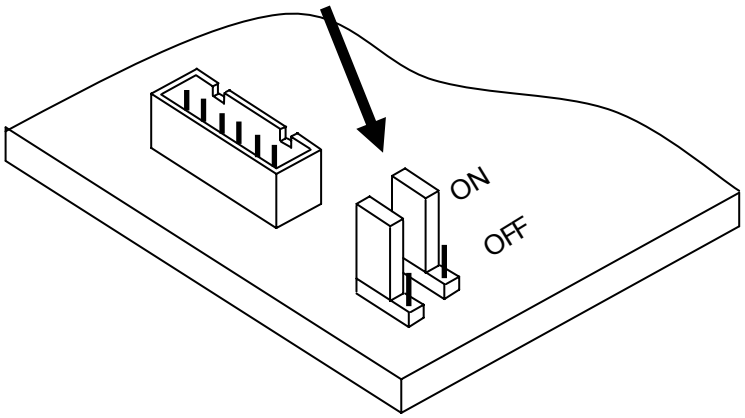
Printed circuit boards should not be field repaired. If a unit is found to be faulty, replace it with another unit and return the faulty unit to CEECO for repair. Modifications by anyone other than CEECO will void the warranty.

13.0 LOCATION OF PROGRAMMING JUMPERS

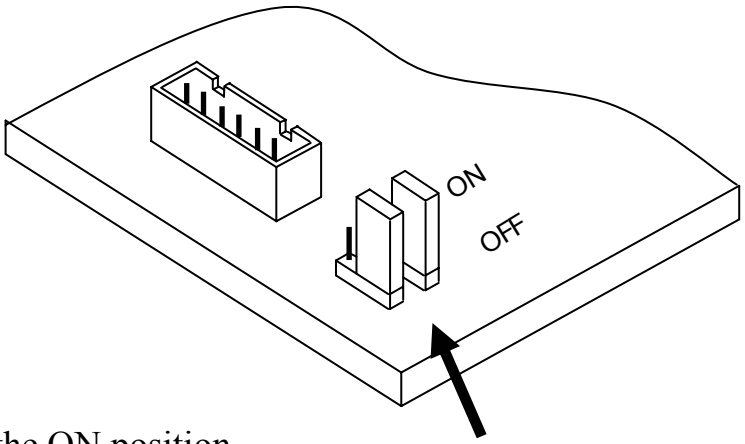
Locate the mini jumpers on the corner of the PCB.



Move the mini jumpers to the ON position BEFORE going off-hook.



When programming is completed, move the mini jumpers to the OFF position.



NOTE:
Do not leave the mini jumpers in the ON position, this will decrease battery life.